

REMARKS/ARGUMENTS

This amendment responds to the Notice of Non-Compliant Amendment and to the Office Action dated January 5, 2009, in which the Examiner required information, objected to the Specification, rejected claims 5 and 7 under 35 U.S.C. § 101, and rejected claims 1-7 under 35 U.S.C. § 102(b).

In the Office Action, the Examiner requested Applicants identify pending or abandoned applications that disclose similar subject matter filed by at least one of the inventors or assigned to the same assignee as the current application. The Applicants cannot readily obtain this required information. However, attached to this response is a copy of a search done for the two inventors of the current application. Mr. Watanabe is listed as inventor on 25 patents, while Mr. Kondo is listed as inventor in 370 patents. Further information is currently not readily obtainable.

As indicated above, the Specification has been amended for the priority information. Applicants respectfully request the Examiner withdraws the objection to the Specification.

As indicated above, claims 5 and 7 have been amended to be directed to statutory subject matter. Therefore, Applicants respectfully request the Examiner withdraws the rejection to claims 5 and 7 under 35 U.S.C. § 101.

Claim 1 claims an apparatus for processing an image signal, claim 5 claims a method therefore, claim 6 claims a computer-readable medium, and claim 7 claims a program. The apparatus, method, medium and program include converting a first image signal, constituted by plural items of pixel data, into a second image signal constituted of plural items of pixel data. Plural items of pixel data located in a space directional periphery with respect to a position obtained by performing motion compensation on a target position are selected by using motion

vector stored in a plurality of frame memory portions together with the pixel data, from the frame memory portions in which frames before and after the current frame are stored.

By selecting plural items of pixel data by using motion vector corresponding to the target pixel, as claimed in claims 1 and 5-7, the claimed invention provides an apparatus, method, medium and program which can convert an image signal containing coding noise into an image signal from which the coding noise is removed. The prior art does not show, teach or suggest the invention as claimed in claims 1 and 5-7.

Claims 1-7 were rejected under 35 U.S.C. § 102(b) as being anticipated by *Kondo, et al.* (JP 2002-223167).

Applicants respectfully traverse the Examiner's rejection of claims 1-7 under 35 U.S.C. § 102(b). The claims have been reviewed in light of the Office Action, and for reasons set forth below, Applicants respectfully request the Examiner withdraw the rejection to the claims and allows the claims to issue

Kondo, et al. appears to disclose (in corresponding U.S. Application Publication No. 2003/0152165) in FIG. 3 a tap generation circuit 31 which generates a prediction tap, used for a prediction calculation executed in a prediction section 35 from the first decoded data, the first additional information, the second decoded data and the second additional information. More specifically, the tap generation circuit 31 extracts first decoded data and second decoded data that are closer in time or in space aimed-at data that is aimed at because it is to be improved in quality, also extracts first additional information and second additional information used for decoding that first decoded data and that second decoded data and then sends extracted data (information) to the prediction section 35 as the prediction tap [0069]. The prediction section 35 obtains the prediction tap output from the tap generation section 31 and the tap coefficient output

from the coefficient memory 34, uses the prediction tap and the tap coefficients to perform a linear prediction calculation and obtains and outputs data acquired by improving the quality of the aimed-at data, that is, a prediction value of the aimed-at data having higher quality [0074].

Thus, *Kondo, et al.* merely discloses a tap generation section 31 which extracts a plurality of pixel data located in time or space directional periphery. However, nothing in *Kondo, et al.* shows, teaches or suggests selecting pixel data from different frames by using motion vector corresponding to a target pixel as claimed in claims 1 and 5-7. In other words, nothing in *Kondo, et al.* shows, teaches, or suggests selecting plural items of pixel data located in a space directional periphery with respect to a position obtained by performing motion compensation on the target position by using the motion vector stored in the plurality of frame memory portions together with the pixel data, from the frame memory portions in which frames before and after the current frame are stored as claimed in claims 1 and 5-7. Rather, *Kondo, et al.* only discloses selecting pixels but does not use a motion vector to select pixel data or obtain position of a target pixel by performing motion compensation.

Applicants respectfully point out that selecting pixel data from different frames by using motion vector corresponding to the target pixel is shown in FIG. 8 of Applicants' Specification. Nowhere in *Kondo, et al.*, does *Kondo, et al.* show, teach or suggest using motion vector or performing motion compensation such as shown in FIG. 8 of Applicants application.

Additionally, FIG. 8 in *Kondo, et al.* merely discloses an example structure of an encoder encoding an audio signal [0132]. FIG. 9 shows a decoder used when the encoder 1 is configured for audio encoding [0163]. FIG. 10 shows an example of an encoder 1 used for encoding still-picture image data by a JPEG method [0170]. FIG. 11 shows the structure of a decoder used when the encoder is configured to encode still-picture image data [0176]. FIG. 12 shows an

example of the structure of an encoder used when it encodes motion-picture image data by MPEG2 method [0180]. FIG. 13 shows the structure of a decoding section 21 used when the encoder is configured to encode motion-picture image data by MPEG2 [0188]. The encoder of FIG. 12 includes a motion compensation circuit 140 to output a reference image [0187]. The decoder of FIG. 13 also includes a motion compensation circuit 156 which outputs a reference image [0192].

Thus, *Kondo, et al.* merely discloses using motion compensation circuits 140 and 156 in order to output a reference image when encoding/decoding a moving image of MPEG2. Nothing in *Kondo, et al.* shows, teaches or suggests using motion compensation for data selection as claimed in claims 1 and 5-7. Rather, *Kondo, et al.* only discloses motion compensation used during MPEG coding or decoding. In other words, nothing in *Kondo, et al.* shows, teaches or suggests selecting plural items with respect to a position obtained by performing motion compensation on a target position by using the motion vectors as claimed in claims 1 and 5-7.

Since nothing in *Kondo, et al.* shows, teaches or suggests selecting pixel data from different frames using motion vectors corresponding to the target pixel as claimed in claims 1 and 5-7, Applicants respectfully request the Examiner withdraws the rejection to claims 1 and 5-7 under 35 U.S.C. § 102(b).

Claims 2-4 depend from claim 1 and recite additional features. Applicants respectfully submit that claims 2-4 would not have been anticipated by *Kondo, et al.* within the meaning of 35 U.S.C. § 102(b), at least for the reasons as set forth above. Therefore, Applicants respectfully request the Examiner withdraws the rejection to claims 2-4 under 35 U.S.C. § 102(b).

The prior art of record, which is not relied upon, is acknowledged. The references taken singularly or in combination do not anticipate or make obvious the claimed invention.

Thus, it now appears that the application is in condition for a reconsideration and allowance. Reconsideration and allowance at an early date are respectfully requested.

CONCLUSION

If for any reason the Examiner feels that the application is not now in condition for allowance, the Examiner is requested to contact, by telephone, the Applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed within the currently set shortened statutory period, Applicants respectfully petition for an appropriate extension of time. The fees for such extension of time may be charged to Deposit Account No. 50-0320.

In the event that any additional fees are due with this paper, please charge our Deposit Account No. 50-0320.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
Attorneys for Applicants

Date: April 23, 2009

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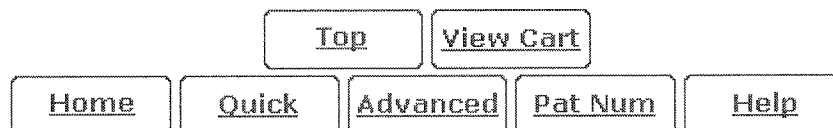
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PAT.
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Title

- 1 [7,467,083](#) **T** [Data processing apparatus](#)
- 2 [7,412,384](#) **T** [Digital signal processing method, learning method, apparatuses for them, and program storage medium](#)
- 3 [7,397,512](#) **T** [Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus](#)
- 4 [7,366,660](#) **T** [Transmission apparatus, transmission method, reception apparatus, reception method, and transmission/reception apparatus](#)
- 5 [7,336,832](#) **T** [Processor and processing method for an image signal, image display apparatus, generation apparatus and generation method for coefficient data used therein, program for executing each of these methods, and computer-readable medium recording the program](#)
- 6 [7,283,961](#) **T** [High-quality speech synthesis device and method by classification and prediction processing of synthesized sound](#)
- 7 [7,269,559](#) **T** [Speech decoding apparatus and method using prediction and class taps](#)
- 8 ~~[7,127,736](#) **T** [Content processing apparatus and content processing method for digest information based on input of a content user](#)~~
- 9 [7,113,225](#) **T** [Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus](#)
- 10 [7,082,220](#) **T** [Data processing apparatus](#)
- 11 [7,068,845](#) **T** [Information processing apparatus using class-classification adaptive processing](#)
- 12 [7,002,587](#) **T** [Semiconductor device, image data processing apparatus and method](#)
- 13 [6,990,475](#) **T** [Digital signal processing method, learning method, apparatus thereof and program storage medium](#)
- 14 [6,912,014](#) **T** [Image processing device and method, and recording medium](#)

- 15 [6,907,413](#) [Digital signal processing method, learning method, apparatuses for them, and program storage medium](#)
 - 16 [6,597,737](#) [T Motion determining apparatus, method thereof, and picture information converting apparatus](#)
 - 17 [6,591,398](#) [T Multiple processing system](#)
 - 18 [6,483,546](#) [T Picture information converting apparatus, picture information converting method, and television receiver](#)
 - 19 [6,483,545](#) [T Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus](#)
 - 20 [6,330,344](#) [T Image processing device and method employing motion detection to generate improved quality image from low resolution image](#)
 - 21 [6,307,560](#) [T Classified adaptive spatio-temporal format conversion method and apparatus](#)
 - 22 [6,201,833](#) [T Motion determining apparatus, method thereof, and picture information converting apparatus](#)
 - 23 [6,195,463](#) [T Multiresolution image processing and storage on a single chip](#)
 - 24 [5,978,324](#) [T Disc recording/reproducing unit elastically supported on a main body of the apparatus including a lock mechanism for the elastic support device](#)
 - 25 [5,828,633](#) [T Disc recording and/or reproducing changer with disc transporting mechanism and disc detector](#)
 - 26 [5,644,558](#) [T Recording and/or reproducing apparatus for disc-shaped recording medium](#)
 - ~~27 [5,370,076](#) [T Method of producing single crystal of KTiOPO.sub.4](#)~~
 - ~~28 [4,731,777](#) [T Optical disk player](#)~~
 - ~~29 [4,592,039](#) [T Disc player](#)~~
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PAT. NO.	Title
1 7,499,895	T Signal processor
2 7,495,707	T Signal processing apparatus and method, recording medium, and program
3 7,488,078	T Display apparatus, image processing apparatus and image processing method, imaging apparatus, and program
4 7,486,325	T Method and apparatus for taking an image, method and apparatus for processing an image, and program and storage medium
5 7,486,253	T Transmitting device and transmitting method, receiving device and receiving method, transmitting/receiving device and transmitting/receiving method, recorded medium, and signal
6 7,483,565	T Image processing device and method, learning device and method, recording medium, and program
7 7,483,079	T Signal processing apparatus, signal processing method, storage medium, and program
8 7,477,801	T Information processing apparatus
9 7,477,786	T Data conversion device, data conversion method, learning device, learning method, program, and recording medium
10 7,477,761	T Image processing apparatus and method, and image-capturing apparatus
11 7,477,305	T Imaging device and imaging method
12 7,477,289	T Image processing apparatus and method, and image pickup apparatus
13 7,474,806	T Information processing apparatus
14 7,467,083	T Data processing apparatus
15 7,460,178	T Image processing apparatus and image processing method
16 7,454,083	T Image processing apparatus, image processing method, noise-amount estimate

- apparatus, noise-amount estimate method, and storage medium
- 17 [7,453,936](#) **T** [Transmitting apparatus and method, receiving apparatus and method, program and recording medium, and transmitting/receiving system](#)
- 18 [7,450,764](#) **T** [Image processing device and method, learning device and method, recording medium, and program](#)
- 19 [7,447,378](#) **T** [Image processing device, method, and program](#)
- 20 [7,443,590](#) **T** [Imaging apparatus and method, and method for designing imaging apparatus](#)
- 21 [7,440,029](#) **T** [Apparatus and method for processing informational signal](#)
- 22 [7,434,943](#) **T** [Display apparatus, image processing apparatus and image processing method, imaging apparatus, and program](#)
- 23 [7,424,130](#) **T** [Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal](#)
- 24 [7,424,057](#) **T** [Data format transcoding apparatus and associated method](#)
- 25 [7,422,332](#) **T** [Wall structure](#)
- 26 [7,412,384](#) **T** [Digital signal processing method, learning method, apparatuses for them, and program storage medium](#)
- 27 [7,412,075](#) **T** [Picture processing apparatus for processing picture data in accordance with background information](#)
- 28 [7,409,074](#) **T** [Information processing apparatus and system using pixel data](#)
- 29 [7,406,712](#) **T** [Communication apparatus, communication method, and recording medium used therewith](#)
- 30 [7,403,235](#) **T** [Integrated circuit and information signal processing apparatus having multiple processing portions](#)
- 31 [7,401,177](#) **T** [Data storage device, data storage control apparatus, data storage control method, and data storage control program](#)
- 32 [7,397,512](#) **T** [Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus](#)
- 33 [7,394,812](#) **T** [Apparatus and method for processing informational signal](#)
- 34 [7,385,650](#) **T** [Device and method for processing image signal, program for performing the method, and computer-readable medium for recording the program](#)
- 35 [7,382,830](#) **T** [Apparatus for generating motion control signal from image signal](#)
- 36 [7,379,878](#) **T** [Information encoding apparatus and method, information decoding apparatus and method, recording medium utilizing spectral switching for embedding additional information in an audio signal](#)
- 37 [7,373,431](#) **T** [Signal processing apparatus, signal processing method, signal processing system, program and medium](#)
- 38 [7,372,997](#) **T** [Data conversion device, data conversion method, learning device, learning method, program and recording medium](#)
- 39 [7,369,142](#) **T** [Image-displaying apparatus and method for obtaining pixel data therefor](#)
- 40 [7,366,660](#) **T** [Transmission apparatus, transmission method, reception apparatus, reception method, and transmission/reception apparatus](#)
- 41 [7,352,917](#) **T** [Image processing apparatus and method, and image pickup apparatus](#)
- 42 [7,343,027](#) **T** [Image processing apparatus, image signal generation method, information recording medium, and image processing program](#)
- 43 [7,342,601](#) **T** [Communication system, communication device, seating-order determination device,](#)

communication method, recording medium, group-determination-table generating method, and group-determination-table generating device

44 7,340,106 **T** Image processing apparatus and method, and image-capturing apparatus

45 7,340,097 **T** Image processing apparatus, image processing method, and recording medium

46 7,339,617 **T** Image providing device and its providing method, image processing device and processing method, and storage medium

47 7,336,832 **T** Processor and processing method for an image signal, image display apparatus, generation apparatus and generation method for coefficient data used therein, program for executing each of these methods, and computer-readable medium recording the program

48 7,336,829 **T** Data processing apparatus and method and recording medium

49 7,336,818 **T** Image processing device and method, and image-taking device

50 7,328,447 **T** Optical recording medium manufacturing device, method, optical recording medium, reproduction device, method, recording device, and method



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IN/"kondo" AND AN/sony and in/tetsujiro

PAT. NO.	Title
51 7,315,654	Image processing apparatus
52 7,315,653	Image processing apparatus
53 7,313,386	Data processing system and method, communication system and method, and charging device and method
54 7,305,136	Image processing apparatus
55 7,298,905	Image processing apparatus and method, communication apparatus, communication system and method, and recording medium
56 7,289,671	Data processing apparatus and method and recording medium
57 7,286,184	Information signal processing device, information signal processing method, image signal processing device and image display device using it, coefficient type data creating device used therein and creating method, coefficient data creating device and creating method, and information providing medium
58 7,283,961	High-quality speech synthesis device and method by classification and prediction processing of synthesized sound
59 7,283,678	Data processing apparatus and method and recording medium
60 7,283,173	Coefficient seed data or coefficient data production device used in image display apparatus, method for producing coefficient seed data or coefficient data used in image display apparatus, program therefor, and computer-readable medium for storing the same
61 7,280,152	Coefficient seed data or coefficient data production device used in image display apparatus, method for producing coefficient seed data or coefficient data used in

- image display apparatus, program therefor, and computer-readable medium for storing the same
- 62 7,277,894 **T** Control system, control apparatus, control method, storage medium, and program
- 63 7,269,559 **T** Speech decoding apparatus and method using prediction and class taps
- 64 7,262,808 **T** Apparatus and method for generating coefficients, apparatus and method for generating class configuration, informational signal processing apparatus, and programs for performing these methods
- 65 7,260,260 **T** Image processing apparatus and method
- 66 7,248,599 **T** Signal processing apparatus
- 67 7,245,774 **T** Image processing apparatus
- 68 7,240,128 **T** Data processing apparatus and data processing method that generates a final class code
- 69 7,233,364 **T** Apparatus and method for generating coefficient data, apparatus and method for processing information signal using the same, apparatus and method for obtaining coefficient data used therefor, and information providing medium
- 70 7,221,863 **T** Image processing apparatus and method, and program and recording medium used therewith
- 71 7,221,778 **T** Image processing apparatus and method, and image pickup apparatus
- 72 7,218,791 **T** Image processing device and method, and imaging device
- 73 7,212,245 **T** Information signal processing device, information signal processing method, image signal processing device and image display device using it, coefficient type data creating device used therein and creating method, and information providing medium
- 74 7,209,595 **T** Image processing apparatus, image processing method, noise-amount estimate apparatus, noise-amount estimate method, and storage medium
- 75 7,206,452 **T** Data processing apparatus and method and recording medium
- 76 7,206,018 **T** Signal processing method and apparatus and recording medium
- 77 7,181,080 **T** Image processing apparatus and method, and image pickup apparatus
- 78 7,174,051 **T** Information processing apparatus for adaptive processing circuits
- 79 7,155,057 **T** Apparatus for and method of processing image and apparatus for and method of encoding image
- 80 7,154,541 **T** Image processing device
- 81 7,146,286 **T** Monitoring system, information processing apparatus and method, recording medium, and program
- 82 7,146,023 **T** Image processor, image signal generating method, information recording medium, and image processing program
- 83 7,139,019 **T** Image processing device
- 84 7,136,942 **T** Data processing apparatus and data processing method that generates a final class code
- 85 7,136,527 **T** Apparatus and method for extracting artificial images and program for performing the method
- 86 7,133,562 **T** Image processing apparatus
- 87 7,130,464 **T** Image processing device
- 88 7,127,736 **T** Content processing apparatus and content processing method for digest information based on input of a content user

- 89 [7,113,225](#) **T** [Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus](#)
- 90 [7,102,503](#) **T** [Monitoring system, method and apparatus for processing information, storage medium, and program](#)
- 91 [7,088,768](#) **T** [Data processing apparatus and data processing method](#)
- 92 [7,085,318](#) **T** [Image processing system, image processing method, program, and recording medium](#)
- 93 [7,085,172](#) **T** [Data storage apparatus, data storage control apparatus, data storage control method, and data storage control program](#)
- 94 [7,082,220](#) **T** [Data processing apparatus](#)
- 95 [7,080,312](#) **T** [Data transformation for explicit transmission of control information](#)
- 96 [7,076,097](#) **T** [Image processing apparatus and method, communication apparatus, communication system and method, and recorded medium](#)
- 97 [7,072,829](#) **T** [Speech recognition from concurrent visual and audible inputs](#)
- 98 [7,072,491](#) **T** [Integrative encoding system and adaptive decoding system](#)
- 99 [7,072,240](#) **T** [Apparatus for processing data, memory bank used therefor, semiconductor device, and memory for reading out pixel data](#)
- 100 [7,071,990](#) **T** [Display apparatus, display method, program, storage medium, and display system](#)
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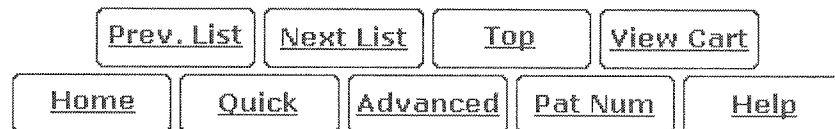
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PAT. NO.	Title
101 7,071,930	T Active matrix display device, video signal processing device, method of driving the active matrix display device, method of processing signal, computer program executed for driving the active matrix display device, and storage medium storing the computer program
102 7,069,187	T Individual authentication apparatus, individual authentication method, and computer program
103 7,068,845	T Information processing apparatus using class-classification adaptive processing
104 7,061,539	T Information signal processing device, information signal processing method, image signal processing device, image display comprising the same, and information providing medium
105 7,061,538	T Image-information converting apparatus and method, image displaying apparatus and method, coefficient calculating apparatus and method, coefficient-data storing apparatus, apparatus and method for detecting part where picture quality is degraded, recording medium, and program
106 7,050,633	T Image processing apparatus and method, and storage medium therefor
107 7,050,092	T Signal processing apparatus, signal processing method, and presentation system
108 7,047,325	T Data processing apparatus, data processing method, and recording medium therefor
109 7,042,513	T Information signal processing device, information signal processing method, image signal processing device, image signal processing method and image displaying method using it, coefficient kind data generating device and method used therein, and computer readable medium and program

- 110 [7,038,729](#) **T** [Device and method for producing coefficient seed data used for format conversion, and information-providing medium therefore](#)
- 111 [7,035,471](#) **T** [Data processing device and data processing method and recorded medium](#)
- 112 [7,031,522](#) **T** [Image processing apparatus and method, and storage medium therefor](#)
- 113 [7,031,513](#) **T** [Data processing apparatus and data processing method](#)
- 114 [7,031,384](#) **T** [Apparatus for generating motion control signal from image signal](#)
- 115 [7,024,050](#) **T** [Image processing apparatus](#)
- 116 [7,024,038](#) **T** [Image processing apparatus and method, and storage medium therefor](#)
- 117 [7,010,737](#) **T** [Method and apparatus for error data recovery](#)
- 118 [7,009,579](#) **T** [Transmitting apparatus and method, receiving apparatus and method, transmitting and receiving apparatus and method, record medium and signal](#)
- 119 [7,003,163](#) **T** [Image processing apparatus](#)
- 120 [7,002,587](#) **T** [Semiconductor device, image data processing apparatus and method](#)
- 121 [6,999,633](#) **T** [Data processing apparatus and method](#)
- 122 [6,996,282](#) **T** [Encoding apparatus, encoding method, decoding apparatus, decoding method, and record medium](#)
- 123 [6,996,184](#) **T** [Image-data processing apparatus](#)
- 124 [6,990,489](#) **T** [Information processing apparatus, system and method, and recording medium](#)
- 125 [6,990,475](#) **T** [Digital signal processing method, learning method, apparatus thereof and program storage medium](#)
- 126 [6,990,244](#) **T** [Integrative encoding system and adaptive decoding system](#)
- 127 [6,987,884](#) **T** [Image processing device and method, and recorded medium](#)
- 128 [6,987,539](#) **T** [Image signal conversion apparatus, method and display for image signal conversion based on selected pixel data](#)
- 129 [6,985,186](#) **T** [Coefficient data generating apparatus and method, information processing apparatus and method using the same, coefficient-generating-data generating device and method therefor, and information providing medium used therewith](#)
- 130 [6,985,155](#) **T** [Memory device and image processing apparatus using same](#)
- 131 [6,975,771](#) **T** [Coding device and method using a strong correlation noted pixel selection](#)
- 132 [6,975,770](#) **T** [Image compression and decompression with predictor selection based on embedding data](#)
- 133 [6,970,605](#) **T** [Image processing apparatus, image processing method, noise-amount estimate apparatus, noise-amount estimate method, and storage medium](#)
- 134 [6,970,508](#) **T** [Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks](#)
- 135 [6,968,074](#) **T** [Image processing device, image processing method, and storage medium](#)
- 136 [6,965,697](#) **T** [Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal](#)
- 137 [6,965,693](#) **T** [Image processor, image processing method, and recorded medium](#)
- 138 [6,963,999](#) **T** [Source coding to provide for robust error recovery during transmission losses](#)
- 139 [6,956,960](#) **T** [Image processing device, image processing method, and storage medium](#)
- 140 [6,940,996](#) **T** [Image processing apparatus, image processing method, and storage medium](#)
- 141 [6,934,414](#) **T** [Image processing apparatus, image processing method, and recording medium](#)

- 142 [6,931,156](#) **T** [Coding apparatus and method, decoding apparatus and method, data processing system, storage medium and signal](#)
- 143 [6,912,014](#) **T** [Image processing device and method, and recording medium](#)
- 144 [6,907,413](#) **T** [Digital signal processing method, learning method, apparatuses for them, and program storage medium](#)
- 145 [6,904,172](#) **T** [Coding device and method, and decoding device and method](#)
- 146 [6,901,027](#) **T** [Apparatus for processing data, memory bank used therefor, semiconductor device, and method for reading out pixel data](#)
- 147 [6,873,738](#) **T** [Hierarchical image processor for encoding or decoding, and memory on the same chip](#)
- 148 [6,870,944](#) **T** [Image processing apparatus, image processing method, and storage medium](#)
- 149 [6,864,997](#) **T** [Picture encoding apparatus and method](#)
- 150 [6,859,493](#) **T** [Apparatus and method for the recovery of compression constants in the encoded domain](#)
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PAT. NO.	Title
151 6,859,155	T Data processing device
152 6,836,266	T Active matrix type display
153 6,831,992	T Data processing apparatus and data processing method, decoding apparatus and method thereof, and recording medium
154 6,804,372	T Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal
155 6,778,998	T Signal acquiring apparatus, database, database system, signal presenting system, and signal acquiring, storing, and presenting system
156 6,766,059	T Image processing apparatus
157 6,757,443	T Picture processing apparatus, picture processing method, learning apparatus, and learning method
158 6,757,435	T Apparatus for and method of processing image and apparatus for and method of encoding image
159 6,754,371	T Method and apparatus for past and future motion classification
160 6,738,492	T Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal
161 6,728,310	T Data processing apparatus and data processing method
162 6,718,299	T Information processing apparatus for integrating a plurality of feature parameters
163 6,718,073	T Arithmetic device, and converter, and their methods
164 6,714,252	T Image signal processing apparatus and digital signal processing method

- 165 [6,707,502](#) **T** [Apparatus and method for converting a field frequency of a picture signal](#)
- 166 [6,690,831](#) **T** [Encoding device and encoding method, decoding device and decoding method, information processing device and information processing method as well as a medium](#)
- 167 [6,687,388](#) **T** [Picture processing apparatus](#)
- 168 [6,678,405](#) **T** [Data processing apparatus, data processing method, learning apparatus, learning method, and medium](#)
- 169 [6,678,330](#) **T** [Image processing apparatus, image processing method, data-processing apparatus, data processing method, and storage medium](#)
- 170 [6,678,328](#) **T** [Information processor](#)
- 171 [6,668,070](#) **T** [Image processing device, image processing method, and storage medium](#)
- 172 [6,658,155](#) **T** [Encoding apparatus](#)
- 173 [6,650,256](#) **T** [Data processing apparatus, data processing method, program, program recording medium, embedded data, and data recording medium](#)
- 174 [6,646,684](#) **T** [Image conversion device and method](#)
- 175 [6,636,640](#) **T** [Integrative encoding system and adaptive decoding system](#)
- 176 [6,631,242](#) **T** [Apparatus for recording and reproducing digital picture data](#)
- 177 [6,621,936](#) **T** [Method and apparatus for spatial class reduction](#)
- 178 [6,611,562](#) **T** [Image processing device and image processing method, and computer-readable recorded medium](#)
- 179 [6,608,644](#) **T** [Communication system](#)
- 180 [6,606,111](#) **T** [Communication apparatus and method thereof](#)
- 181 [6,597,737](#) **T** [Motion determining apparatus, method thereof, and picture information converting apparatus](#)
- 182 [6,591,398](#) **T** [Multiple processing system](#)
- 183 [6,581,170](#) **T** [Source coding to provide for robust error recovery during transmission losses](#)
- 184 [6,571,142](#) **T** [Data processing apparatus, data processing method, and medium](#)
- 185 [6,567,531](#) **T** [Image processing apparatus, image processing method, and providing medium](#)
- 186 [6,564,180](#) **T** [Data processing apparatus and data processing method](#)
- 187 [6,556,725](#) **T** [Data processing device and data order converting method](#)
- 188 [6,556,209](#) **T** [Memory apparatus of digital video signal](#)
- 189 [6,553,381](#) **T** [Time-varying randomization for data synchronization and implicit information transmission](#)
- 190 [6,549,672](#) **T** [Method and apparatus for recovery of encoded data using central value](#)
- 191 [6,546,139](#) **T** [Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal](#)
- 192 [6,539,517](#) **T** [Data transformation for explicit transmission of control information](#)
- 193 [6,539,119](#) **T** [Picture coding apparatus and method thereof](#)
- 194 [6,535,148](#) **T** [Method and apparatus for truncated decoding](#)
- 195 [6,522,785](#) **T** [Classified adaptive error recovery method and apparatus](#)
- 196 [6,519,368](#) **T** [Resolution enhancement by nearest neighbor classified filtering](#)
- 197 [6,519,365](#) **T** [Encoder, decoder, recording medium, encoding method, and decoding method](#)
- 198 [6,516,088](#) **T** [Image information converting apparatus](#)

199 6,501,851 **T** [Image encoding/decoding by eliminating color components in pixels](#)

200 6,493,842 **T** [Time-varying randomization for data synchronization and implicit information transmission](#)



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IN/"kondo" AND AN/sony and in/tetsujiro

PAT. NO.	Title
201 6,486,885	T Memory device and method
202 6,483,546	T Picture information converting apparatus, picture information converting method, and television receiver
203 6,483,545	T Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus
204 6,480,630	T Encoding and decoding different resolution video signals for display on plural units
205 6,477,278	T Image coding apparatus, image coding method, image decoding method, image decoding apparatus, image data transmitting method and recording medium
206 6,473,876	T Method and apparatus for encoding of bitstreams using rotation
207 6,463,179	T Image compression and decompression based on a flat pixel group level, group pixel coordinate positions, and the number of pixels for the group
208 6,463,178	T Image processing device and method, and transmission medium, transmission method and image format
209 6,449,591	T Learning apparatus, learning method, recognition apparatus, recognition method, and recording medium
210 6,442,297	T Storage apparatus and writing and/or reading methods for use in hierarchical coding
211 6,438,267	T Image compression method
212 6,433,828	T Picture conversion using field-by-field vertical inversion dependent upon the type of picture signal to be outputted
213 6,430,524	T Data processing method and apparatus

- 214 [6,421,144](#) **T** [Picture encoding apparatus and method](#)
- 215 [6,418,548](#) **T** [Method and apparatus for preprocessing for peripheral erroneous data](#)
- 216 [6,418,233](#) **T** [Motion determining apparatus and determining method](#)
- 217 [6,414,717](#) **T** [Picture converting apparatus, picture converting method, learning apparatus, learning method, and record medium](#)
- 218 [6,408,097](#) **T** [Picture coding apparatus and method thereof](#)
- 219 [6,404,924](#) **T** [Image processing apparatus and method](#)
- 220 [6,396,954](#) **T** [Apparatus and method for recognition and apparatus and method for learning](#)
- 221 [6,389,562](#) **T** [Source code shuffling to provide for robust error recovery](#)
- 222 [6,385,250](#) **T** [Image processing apparatus and image processing method](#)
- 223 [6,385,249](#) **T** [Data converting apparatus, method thereof, and recording medium](#)
- 224 [6,381,369](#) **T** [Image coding apparatus, image coding method, image decoding method, image decoding apparatus, image data transmitting method and recording medium](#)
- 225 [6,370,546](#) **T** [First information processing device directly accessing, updating second information process device and vice versa via transmission bus management authority](#)
- 226 [6,363,118](#) **T** [Apparatus and method for the recovery of compression constants in the encoded domain](#)
- 227 [6,356,310](#) **T** [Signal converting apparatus and method for converting a first digital picture into a second digital picture having a greater number of pixels than the first digital picture](#)
- 228 [6,351,494](#) **T** [Classified adaptive error recovery method and apparatus](#)
- 229 [6,339,615](#) **T** [Picture encoding device, picture encoding method, picture decoding device, picture decoding method, and recording medium](#)
- 230 [6,335,988](#) **T** [Method and apparatus for separating/generating background and motion object planes](#)
- 231 [6,332,042](#) **T** [Apparatus and method for encoding and decoding data in a lossy transmission environment](#)
- 232 [6,330,344](#) **T** [Image processing device and method employing motion detection to generate improved quality image from low resolution image](#)
- 233 [6,324,304](#) **T** [Picture coding apparatus and method thereof](#)
- 234 [6,323,905](#) **T** [Picture conversion apparatus picture conversion method learning apparatus and learning method](#)
- 235 [6,320,910](#) **T** [Apparatus for hierarchical encoding of digital image signals with improved encoding efficiency](#)
- 236 [6,311,297](#) **T** [Apparatus and method for mapping an image to blocks to provide for robust error recovery in a lossy transmission environment](#)
- 237 [6,307,979](#) **T** [Classified adaptive error recovery method and apparatus](#)
- 238 [6,307,560](#) **T** [Classified adaptive spatio-temporal format conversion method and apparatus](#)
- 239 [6,298,085](#) **T** [Source encoding using shuffling of data to provide robust error recovery in a burst error-environment](#)
- 240 [6,297,855](#) **T** [Signal conversion apparatus and method](#)
- 241 [6,295,008](#) **T** [Method and apparatus for truncated decoding](#)
- 242 [6,292,591](#) **T** [Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks](#)
- 243 [6,292,590](#) **T** [Dynamic coding with exchanging pixels](#)
- 244 [6,288,654](#) **T** [Data conversion apparatus, data conversion method, and recording medium](#)

245 [6,285,714](#) **T** [Image signal interpolating apparatus](#)

246 [6,285,712](#) **T** [Image processing apparatus, image processing method, and providing medium therefor](#)

247 [6,282,684](#) **T** [Apparatus and method for recovery of data in a lossy transmission environment](#)

248 [6,278,806](#) **T** [Storage apparatus and storage method](#)

249 [6,275,617](#) **T** [Method and apparatus for separating/generating background and motion object planes](#)

250 [6,266,454](#) **T** [Device and method for processing, image and device and method for encoding image](#)

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PAT. NO.	Title
251 6,266,371	T Motion vector detecting apparatus and method
252 6,263,468	T Apparatus and method for partial buffering transmitted data to provide robust error recovery in a lossy transmission environment
253 6,263,108	T Apparatus and method for recovery of lost/damaged data in a bitstream of data based on compatibility of adjacent blocks of data
254 6,263,105	T Image processing apparatus and method
255 6,252,611	T Storage device having plural memory banks concurrently accessible, and access method therefor
256 6,233,019	T Image converter and image converting method for improving image quality
257 6,219,456	T Picture coding apparatus and method thereof
258 6,215,421	T Coding apparatus and method, decoding apparatus and method, data processing system, and storage medium
259 6,212,663	T Apparatus and method for recovery of quantization codes in a lossy transmission environment
260 6,201,833	T Motion determining apparatus, method thereof, and picture information converting apparatus
261 6,201,741	T Storage device and a control method of the storage device
262 6,198,770	T Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks
263 6,195,464	T Picture coding apparatus and method thereof

- 264 [6,195,463](#) **T** [Multiresolution image processing and storage on a single chip](#)
- 265 [6,192,161](#) **T** [Method and apparatus for adaptive filter tap selection according to a class](#)
- 266 [6,192,076](#) **T** [Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks](#)
- 267 [6,181,632](#) **T** [Multiple memory bank device and method for image processing](#)
- 268 [6,178,266](#) **T** [Method and apparatus for the recovery of compression constants in the encoded domain](#)
- 269 [6,170,074](#) **T** [Source coding to provide for robust error recovery](#)
- 270 [6,163,868](#) **T** [Apparatus and method for providing robust error recovery for errors that occur in a lossy transmission environment](#)
- 271 [6,160,845](#) **T** [Picture encoding device, picture encoding method, picture decoding device, picture decoding method, and recording medium](#)
- 272 [6,154,761](#) **T** [Classified adaptive multiple processing system](#)
- 273 [6,151,416](#) **T** [Method and apparatus for adaptive class tap selection according to multiple classification](#)
- 274 [6,134,348](#) **T** [Image processing apparatus and method](#)
- 275 [6,119,048](#) **T** [Integrated circuit for processing digital signal](#)
- 276 [6,115,073](#) **T** [Signal converting apparatus and method using a class decision circuit](#)
- 277 [6,112,205](#) **T** [Data processing equipment and method for classifying data into classes in accordance with a plurality of thresholds for quantizing data](#)
- 278 [6,108,451](#) **T** [Picture coding apparatus and method thereof](#)
- 279 [6,078,352](#) **T** [Stereoscopic viewing device and stereoscopic viewing method](#)
- 280 [6,072,837](#) **T** [Quantizing apparatus and quantizing method](#)
- 281 [6,058,217](#) **T** [Image coding apparatus for coding an image of a component signal](#)
- 282 [6,057,885](#) **T** [Picture information converting apparatus and method thereof and sum-of-product calculating circuit and method thereof](#)
- 283 [6,037,970](#) **T** [Videoconference system and method therefor](#)
- 284 [6,016,164](#) **T** [Image signal interpolating apparatus](#)
- 285 [6,014,174](#) **T** [Picture encoding apparatus, picture encoding method, picture encoding and transmitting method, and picture record medium](#)
- 286 [5,977,996](#) **T** [Storage device for storing hierarchically coded data and access method thereof](#)
- 287 [5,973,745](#) **T** [Video signal encoding method, video signal encoding apparatus, video signal transmitting method, and recording medium](#)
- 288 [5,966,183](#) **T** [Signal converter and signal conversion method](#)
- 289 [5,966,179](#) **T** [Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal record medium thereof](#)
- 290 [5,959,692](#) **T** [Television-signal processing apparatus and television-signal processing](#)
- 291 [5,959,676](#) **T** [Video signal encoding method, video signal encoding apparatus, video signal transmitting method, and recording medium](#)
- 292 [5,956,089](#) **T** [Picture encoding apparatus, picture encoding method, picture encoding and transmitting method, and picture record medium](#)
- 293 [5,946,044](#) **T** [Image signal converting method and image signal converting apparatus](#)
- 294 [5,940,539](#) **T** [Motion vector detecting apparatus and method](#)
- 295 [5,940,132](#) **T** [Image signal converting apparatus](#)

- 296 [5,930,394](#) **T** [Picture coding apparatus and method thereof](#)
- 297 [5,926,212](#) **T** [Image signal processing apparatus and recording/reproducing apparatus](#)
- 298 [5,912,708](#) **T** [Picture signal encoding device, picture signal encoding method, picture signal decoding device, picture signal decoding method, and recording medium](#)
- 299 [5,903,481](#) **T** [Integrated circuit for processing digital signal](#)
- 300 [5,886,794](#) **T** [Picture encoding apparatus](#)
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PAT. NO.	Title
301 5,878,168	T Method and apparatus for picture encoding and decoding
302 5,870,434	T Apparatus and method for quantizing a digital signal based on quantizing steps including odd-numbered steps
303 5,859,667	T Hierarchical encoding and decoding apparatus for a digital image signal
304 5,852,470	T Signal converting apparatus and signal converting method
305 5,850,261	T Efficient variable length encoder and decoder
306 5,841,375	T Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal medium thereof
307 5,835,138	T Image signal processing apparatus and recording/reproducing apparatus
308 5,825,313	T Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal record medium thereof
309 5,809,175	T Apparatus for effecting A/D conversation on image signal
310 5,781,238	T Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal record medium thereof
311 5,767,986	T Picture encoding apparatus and method
312 5,764,305	T Digital signal processing apparatus and method
313 5,754,692	T Picture coincidence detecting apparatus and method
314 5,748,235	T Imaging apparatus including means for converting red, green, and blue signal components of standard resolution to respective high resolution signal components
315 5,739,873	T Method and apparatus for processing components of a digital signal in the temporal

and frequency regions

- 316 [5,734,433](#) **T** [Picture encoding apparatus, picture encoding method, picture encoding and transmitting method, and picture record medium](#)
- 317 [5,706,367](#) **T** [Transmitter and receiver for separating a digital video signal into a background plane and a plurality of motion planes](#)
- 318 [5,706,009](#) **T** [Quantizing apparatus and quantizing method](#)
- 319 [5,703,652](#) **T** [Information signal encoding system and method for adaptively encoding an information signal](#)
- 320 [5,703,649](#) **T** [Digital video signal coding apparatus and method, and coded video signal decoding apparatus and method](#)
- 321 [5,666,164](#) **T** [Image signal converting apparatus](#)
- 322 [5,663,764](#) **T** [Hierarchical encoding and decoding apparatus for a digital image signal](#)
- 323 [5,627,581](#) **T** [Encoding apparatus and encoding method](#)
- 324 [5,612,751](#) **T** [Image collating method and apparatus](#)
- 325 [5,610,998](#) **T** [Apparatus for effecting A/D conversion on image signal](#)
- 326 [5,610,658](#) **T** [Motion vector detection using hierarchical calculation](#)
- 327 [5,598,214](#) **T** [Hierarchical encoding and decoding apparatus for a digital image signal](#)
- 328 [5,576,772](#) **T** [Motion vector detection apparatus and method](#)
- 329 [5,555,465](#) **T** [Digital signal processing apparatus and method for processing impulse and flat components separately](#)
- 330 [5,534,931](#) **T** [Encoding method and apparatus of digital video signal](#)
- 331 [5,528,606](#) **T** [Error correcting apparatus](#)
- 332 [5,517,588](#) **T** [Digital data conversion equipment and a method for the same](#)
- 333 [5,517,245](#) **T** [High efficiency encoding and/or decoding apparatus](#)
- 334 [5,499,057](#) **T** [Apparatus for producing a noise-reduced image signal from an input image signal](#)
- 335 [5,495,298](#) **T** [Apparatus for concealing detected erroneous data in a digital image signal](#)
- 336 [5,495,297](#) **T** [Signal converting apparatus](#)
- 337 [5,488,618](#) **T** [Error detecting apparatus](#)
- 338 [5,481,554](#) **T** [Data transmission apparatus for transmitting code data](#)
- 339 [5,469,216](#) **T** [Apparatus and method for processing a digital video signal to produce interpolated data](#)
- 340 [5,453,800](#) **T** [Apparatus for judging a hand movement of an image](#)
- 341 [5,444,487](#) **T** [Adaptive dynamic range encoding method and apparatus](#)
- 342 [5,422,673](#) **T** [Video camera with automatic focus control](#)
- 343 [5,406,334](#) **T** [Apparatus and method for producing a zoomed image signal](#)
- 344 [5,404,178](#) **T** [Noise eliminating circuit](#)
- 345 [5,379,072](#) **T** [Digital video signal resolution converting apparatus using an average of blocks of a training signal](#)
- 346 [5,291,283](#) **T** [Decoding apparatus of a compressed digital video signal](#)
- 347 [5,289,274](#) **T** [Electronic image stabilization apparatus](#)
- 348 [5,241,381](#) **T** [Video signal compression using 2-d ADRC of successive non-stationary frames and stationary frame dropping](#)
- 349 [5,233,422](#) **T** [Apparatus for selectively enlarging or reducing an area of a reproduced television](#)

picture

350 5,196,931 **T** Highly efficient coding apparatus producing encoded high resolution signals reproducible by a VTR intended for use with standard resolution signals

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PAT. NO.	Title
351 5,193,003	T Apparatus for decoding digital video data with small memory requirement
352 5,142,272	T Method and apparatus for processing display color signal
353 5,068,726	T Coding apparatus that temporally interpolates block data and selects transmission mode
354 5,049,990	T Highly efficient coding apparatus
355 5,023,710	T Highly efficient coding apparatus
356 4,953,023	T Coding apparatus for encoding and compressing video data
357 4,947,249	T Apparatus in which subsampling and block coding are both employed for coding digital video data
358 4,910,594	T Method and apparatus for adaptively compressing a video signal in accordance with the values of individual pixels
359 4,890,161	T Decoding apparatus
360 4,845,560	T High efficiency coding apparatus
361 4,802,005	T High efficiency encoding system
362 4,788,589	T Method and apparatus for transmitting video data
363 4,777,530	T Apparatus for detecting a motion of a picture of a television signal
364 4,729,021	T High efficiency technique for coding a digital video signal
365 4,722,003	T High efficiency coding apparatus
366 4,710,811	T Highly efficient coding apparatus for a digital video signal
367 4,703,352	T High efficiency technique for coding a digital video signal
368 4,703,351	T Apparatus for an efficient coding of television signals

369 [4,677,476](#) **T** [Method for detecting a movement of a television signal](#)

370 [4,661,846](#) **T** [Apparatus for detecting a movement of a digital television signal](#)

